

Section II
Soil and Site Information

Construction Materials Table 2
Stanley County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AgA: Agar-----	90	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
AgB: Agar-----	90	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
AkA: Fairlo-----	90	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.00	Fair Too Clayey	0.94
AkB: Fairlo-----	90	Fair Low content of organic matter Water erosion Too clayey	0.50 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.00	Fair Too Clayey	0.94
CaA: Canning-----	90	Fair Low content of organic matter Too clayey	0.12 0.98	Good		Fair Hard to reclaim Too Clayey	0.08 0.93
CaB: Canning-----	90	Fair Low content of organic matter Too clayey	0.12 0.98	Good		Fair Hard to reclaim Too Clayey	0.08 0.93
CaC: Canning-----	85	Fair Low content of organic matter Too clayey	0.12 0.98	Good		Fair Hard to reclaim Too Clayey	0.08 0.93

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cc: Carter-----	55	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.22 0.88
Capa-----	35	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
ChB: Chantier-----	90	Poor Too clayey Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Salinity	0.00 0.00 0.00
CsC: Chantier-----	50	Poor Too clayey Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Salinity	0.00 0.00 0.00
Sansarc-----	40	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.37

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CwB: Chantier-----	50	Poor Too clayey Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Salinity	0.00 0.00 0.00
Bullcreek-----	40	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
Do: Dorna-----	95	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey	0.00
Ho: Hoven-----	95	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
HrA: Capa-----	85	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hs: Capa-----	50	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
Slickspots, Dry-----	40	Not rated		Not rated		Not rated	
In: Inavale-----	90	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.71	Good		Poor Too sandy	0.00
KeA: Kirley-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.21	Poor Too Clayey	0.00
KeB: Kirley-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.56	Poor Too Clayey	0.00
Ko: Kolls-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength Depth to saturated zone	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LaB: Lakoma-----	95	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
LaC: Lakoma-----	90	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
LkD: Lakoma-----	45	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
Okaton-----	40	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.37
LoA: Lowry-----	95	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	
LoB: Lowry-----	98	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LoC: Lowry-----	99	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	
McA: Mcclure-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey	0.00
McB: Mcclure-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey	0.00
MdA: Millboro-----	75	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
MdB: Millboro-----	80	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
MoA: Millboro-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MoB: Millboro-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Mu: Munjor-----	55	Fair Low content of organic matter Carbonate content	0.12 0.92	Good		Fair Carbonate content	0.92
Inavale-----	35	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.71	Good		Poor Too sandy	0.00
Nb: Nimbro-----	90	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Good	
OA: Orthents, Loamy----	100	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Low strength Slope Shrink-swell	0.22 0.50 0.87	Poor Slope	0.00
OkE: Okaton-----	65	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.00 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lakoma-----	25	Poor Too clayey Droughty Depth to bedrock Carbonate content Water erosion	0.00 0.00 0.58 0.80 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.50	Poor Slope Too Clayey Depth to bedrock Carbonate content	0.00 0.00 0.58 0.80
Bullcreek-----	3	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
OpA: Opal-----	95	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
OpB: Opal-----	95	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
OpC: Opal-----	90	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
OtB: Opal-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Chantier-----	30	Poor Too clayey Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Salinity	0.00 0.00 0.00
OtC: Opal-----	60	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Chantier-----	30	Poor Too clayey Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Salinity	0.00 0.00 0.00
OxB: Opal-----	50	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Promise-----	40	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Pg: Orthents, Gravelly--	99	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.29	Poor Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18
PrA: Promise-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PrB: Promise-----	95	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
PrC: Promise-----	95	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Ps: Promise-----	68	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Capa-----	29	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
ReA: Ree-----	90	Fair Low content of organic matter Too clayey	0.12 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.81
ReB: Ree-----	90	Fair Low content of organic matter Too clayey	0.12 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.81
ReC: Ree-----	85	Fair Low content of organic matter Too clayey	0.12 0.98	Fair Shrink-swell	0.87	Fair Too Clayey	0.81
Rs: Rock Outcrop, Soft--	70	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sansarc-----	20	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Slope Shrink-swell Low strength	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
ScE: Sansarc-----	85	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Slope Shrink-swell Low strength	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
ScD: Sansarc-----	45	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.37
Opal-----	40	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
ScE: Sansarc-----	65	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Slope Shrink-swell Low strength	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00

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Opal-----	25	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.02 0.58 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.50	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.58
Sd: Sansarc-----	55	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Slope Shrink-swell Low strength	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Rock Outcrop, Soft--	35	Not rated		Not rated		Not rated	
ShE: Schamber-----	85	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Poor Slope	0.00	Poor Slope Hard to reclaim Rock fragments Too sandy	0.00 0.00 0.00 0.00
SmD: Murdo-----	45	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.28	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
Schamber-----	45	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Good		Poor Hard to reclaim Rock fragments Too sandy Slope	0.00 0.00 0.00 0.37

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SmE: Schamber-----	50	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Poor Slope	0.00	Poor Slope Hard to reclaim Rock fragments Too sandy	0.00 0.00 0.00 0.00
Murdo-----	40	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.28	Fair Slope	0.50	Poor Slope Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.00
Sp: Spillway-----	100	Poor Droughty Depth to bedrock Too clayey	0.00 0.00 0.98	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.50 0.87	Poor Depth to bedrock Slope Too Clayey	0.00 0.00 0.93
SuC: Sully-----	90	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.22	Good	
SuE: Sully-----	90	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength Slope	0.22 0.50	Poor Slope	0.00
SvE: Sully-----	55	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength Slope	0.22 0.50	Poor Slope	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sansarc-----	40	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.60 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.50	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00
Sw: Bullcreek-----	85	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
Sx: Bullcreek-----	60	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.00 0.00
Slickspots, Dry-----	30	Not rated		Not rated		Not rated	
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wc: Wendte-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

Section II
Soil and Site Information

Construction Materials Table 2
Stanley County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wd: Wendte-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00
Wf: Albaton-----	90	Poor Too clayey Carbonate content Water erosion	0.00 0.99 0.99	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone Carbonate content	0.00 0.00 0.99
WsE: Westover-----	85	Fair Low content of organic matter	0.50	Fair Slope	0.50	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.28
Wt: Witten-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

